

THE PORT AUTHORITY  
OF NY & NJ

ENGINEERING PROGRAM MANAGER  
WORLD TRADE  
CENTER  
CHIEF ELECTRICAL ENGINEER

1 8/23/99 AS-BID  
No. Date Revision Approved

ENGINEERING DEPARTMENT  
DESIGN DIVISION

WORLD  
TRADE  
CENTER

ELECTRICAL

Title  
FIRE ALARM SYSTEM  
DEVICE UPGRADE  
PHASE III  
1 WORLD TRADE CENTER  
CONTRACT NO. 3  
103rd FLOOR  
STROBE  
INSTALLATION AND  
REMOVAL PLAN

This drawing subject to conditions in Contract. All  
inventions, ideas, designs and methods herein are  
reserved to Port Authority and may not be used  
without its written consent.

S. FELDSTEIN R. DUKESHIRE  
Designed by Drawn by Checked by

AUGUST 9, 1999  
Date

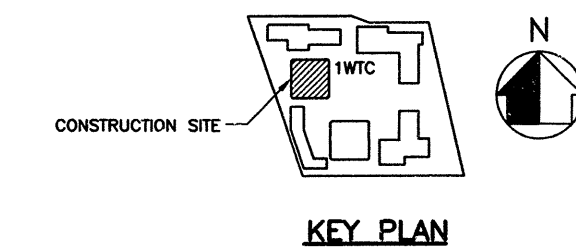
WTC-861.176 E-103-4  
Contract Number Drawing Number

NOTES:

1. FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES, SEE DWG. E-1.  
FOR INSTALLATION DETAILS, SEE DWG. E-2. FOR WIRING DIAGRAMS,  
SEE DWG. E-3.
2. REPLACE EXISTING STROBE WITH THE SHOWN CANDELA RATED STROBE,  
AND REWIRE AS SHOWN. EXISTING BACKBOX AND CONDUIT STUB CAN  
BE UTILIZED IF IT IS SIMILAR TO THE TYPICAL STROBE OR COMBINATION  
BOX. SEE INSTALLATION DETAIL "B" ON DWG. E-2.
3. ONLY AFTER INSTALLED STROBES ARE TESTED AND OPERATIONAL,  
SHALL CONTRACTOR REMOVE EXISTING STROBE IN THE PRESENCE  
OF THE ENGINEER. PATCH WALL TO MATCH EXISTING WALL FINISH.
4. SINCE FIRE ALARM CIRCUIT LENGTH IS CRITICAL, ROUTING AND  
INSTALLATION OF ALL FIRE ALARM CIRCUITS SHALL BE AS SHOWN  
ON DRAWING.
5. DISCONNECT AND ABANDON EXISTING STROBE CIRCUITS IN CEILING.  
TAPE ENDS OF ABANDONED CONDUCTORS AND TAG AS ABANDONED.  
THIS WORK SHALL BE DONE IN THE PRESENCE OF THE ENGINEER.

STROBE CIRCUIT/LOADING TABLE

STROBE TYPE AND RATING	TYPE	15cd	30cd	75cd	110cd	CURRENT PER CIRCUIT (AMPS.)	CIRCUIT LENGTH (ft.)
STR-A	0.063	0.100	0.165	0.209		0.580	309
STR-B	5	1	1	0		0.878	416
STR-C	8	0	1	0		0.680	259
STR-D	5	2	1	0		0.834	282
STR-E	8	0	2	0		0.917	376
STR-F	4	5	1	0		0.936	363
	7	0	3	0			
GRAND TOTAL						4.825	2005



KEY PLAN

0 12 24  
SCALE IN FEET

